CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 17.02.2019

TEST REPORT ON STABILITY OF MIX

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the Work	:	Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road	:	Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	17.02.2019

The results of the tests conducted on the bituminous concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.89	10.23	9 Kn (min)
2	Marshal flow, mm	2.69	3.26	2 - 4
3	Percent air voids in Mineral Aggregate	14.23	12.98	13 – 15
4	Voids in Compacted Mix	4.25	5.14	3 – 6
5	Percent Voids filled with Bitumen	69.56	71.26	65 - 75
6	Density, g/cc	2.15	2.21	--

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Authorised Signatory

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 17.02.2019

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

CLIENT	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	**Sri. M S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5 Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road	Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
DATE OF TESTING	17.02.2019

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	469	469.5
3. Weight of Asphalt and Mineral matter Extracted, g	31	30.5
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	31	30.5
7. Bitumen content in %	6.20	6.10
8. Average	6.15	

GRADATION AFTER EXTRACTION

TABLE - 1

SIEVE SIZE	Percent Passing, %		JOBMIX
mm	Sample 1	Sample 2	Gradation
19	100.0	100.0	100
13.2	96.2	95.6	79-100
9.5	76.5	87.5	70-88
4.75	64.8	62.5	53-71
2.36	49.2	51.4	42-58
1.18	43.8	39.5	34-48
0.6	34.1	36.1	26-38
0.3	30.5	29.4	18-28
0.15	12.6	18.3	12-20
0.075	8.1	6.7	4-10

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

Authorised Signatory

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